Global Command and Control System (GCCS)
Version 2.2
HP Segment Implementation Procedures

Prepared for DISA by

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Chapter 1 Introduction

These implementation procedures provide instructions for installing the segments available for the Global Command and Control System (GCCS) version 2.2 for the Hewlett Packard (HP) series workstations. These procedures include instructions for installing the currently available software segments. This document is divided into the following sections:

- **Section 2, Installation Preparation** - provides guidance that should be followed before starting the installation procedures.

- **Section 3, Application Segment Installation** - addresses the specific installation and configuration items needed to load and configure specific software segments.

The GCCS concept is designed to support a wide range of mission applications through a diverse set of application "segments "executed under a Common Operating Environment (COE). All segments that pass Defense Information Systems Agency (DISA) integration testing become part of the GCCS baseline. Testing of the segments and validation of the functionality are the responsibility of the Government executive agent that provides the segment. The scope of GCCS version 2.2 is to implement the functionality required for the shutdown of the current Honeywell-based Worldwide Military Command and Control System (WWMCCS). GCCS version 2.1 contains the GCCS core functionality required for the shutdown of WWMCCS, as well as other critical legacy applications from earlier versions of GCCS. The emphasis of the GCCS version 2.1 installation is the implementation of this core functionality.

While the HP GCCS can be installed independently from the Solaris GCCS, dependencies can be established between the HP and Solaris. Current Solaris installations establish an Executive Manager server (EMSERVER) workstation. Facilities are provided on the HP and Solaris software that will allow a single Solaris EMSERVER to act as the entry point for building and configuring user accounts. If the site has established an EMSERVER, the HP installation should be configured to use that server. If the site has only HP workstations, a single HP can be established as the EMSERVER. These implementation procedures assume that each site will establish a Solaris EMSERVER.

Many of the GCCS applications require access to a Database Server (DBSERVER). If a DBSERVER is not available to the site, many of these applications will not run.

The complete set of software currently available for the Solaris version of GCCS is not available under the HP Operating System. The software segments shown in the Checklist at the end of this document are available for HP installation.

Several configuration items need to be made known before the start of the installation process. If this site will have a Solaris machine as the EMSERVER, the configuration of the HP workstations will depend on this workstation. The current assumption is that each site will have at least one Sparc 20 that will act as the EMSERVER. If that is not the case, instructions for implementing GCCS on a single HP workstation will be provided in an appendix. The worksheets that were completed for the Solaris installation should be available for reference throughout the installation process.

Chapter 2 Installation Preparation

2.1 Before Installing Application Segments

It is important that the following suite of software segments be loaded on an HP workstation *before* any application segments are installed:

- GCCS HP-UX Upgrade OS 2.3.0.3
- GCCS HP OS Patch 1 1.0
- GCCS COE 3.0.1.6.01G
- EM 2.1.5.02
- UB Patch P2 3.0.1.6.01GP2
- EM Printer 2.1.6
- EM APPLIX Launch Patch 1.0.0.2
- EM Printer Patch 1.0
- EM Process Patch 1.0
- Printer 3.0.1.6.02G
- JMTK 3.0.1.6.01G
- UBApps 3.0.1.6.01G
- UB Patch P2 3.0.1.6.01GP2
- JMCISApps 3.0.1.6.01G

Installation of the above segments provides the proper version of GCCS for the installation of any of the segments outlined in this guide.

For instructions on loading the above software segments **on a new HP workstation**, refer to the following:

- *Global Command and Control System (GCCS) HP Operating System and Unified Build 3.0.1.6G Application Installation Guide,* dated 20 January 1997

For instructions on **upgrading an existing HP workstation** to the appropriate software versions, refer to the following:

- *Global Command and Control System (GCCS), Version 2.2 HP Operating System Upgrade Installation Instructions,* dated 20 January 1997

WARNING:

Do not attempt to load any of the application segments as outlined in this guide without ensuring that your system has been previously loaded with the appropriate versions of the above named segments.

Once you have ensured that your system is at the appropriate “base” level, proceed with the segment loads as outlined in Chapter 3.

2.2 Using the Segment Installer

The instructions contained in this section are intended for general, quick reference use only. For more information regarding segment installation and the SEGMENT INSTALLER window, refer to the *Unified Build System Administrator's Guide.*

1. Login as **`sysadmin`** and select Segment Installer from the SOFTWARE menu.

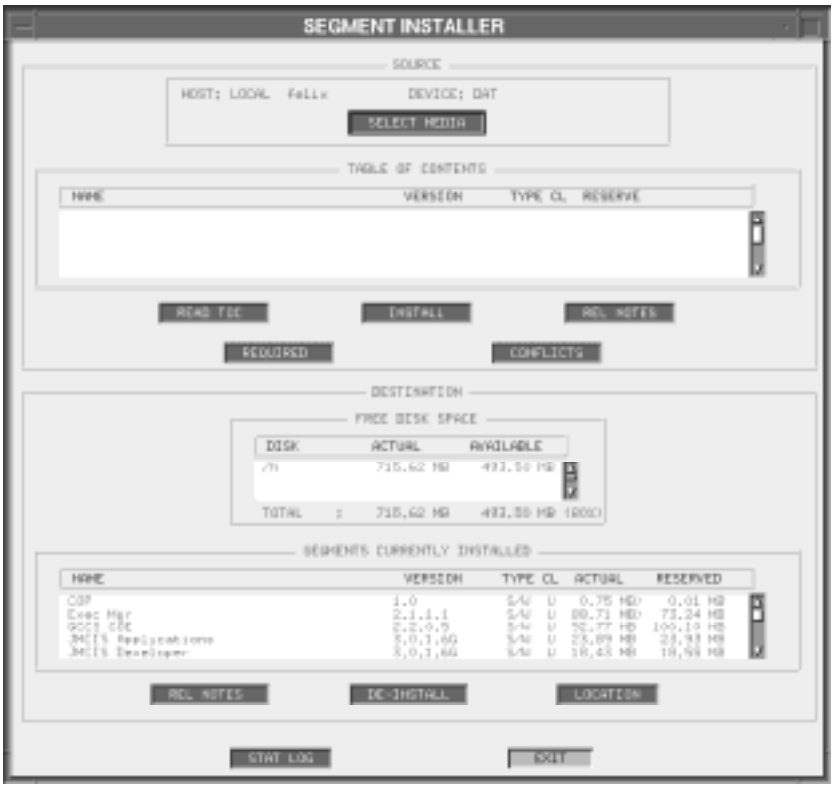

Figure 1. SEGMENT INSTALLER Window

2. In the SEGMENT INSTALLER window, click SELECT MEDIA in the SOURCE box. The SELECT MEDIA window appears.

Figure 2. SELECT MEDIA Window

3. If loading from tape, complete the following steps. If loading from the Installation Server, proceed to Step 4.

   a. In the SELECT MEDIA window, click the diamond knob next to the LOCAL field (if the tape is in a drive which is attached to the machine you are upgrading) or the diamond knob next to the REMOTE field (if the tape is in a drive which is attached to another machine).

   b. If you select REMOTE, a NAME field appears just below the REMOTE field. Click the button next to the NAME field to display a list of hosts available on the local network, and select the hostname of the machine where the tape drive is located.

   c. In the DEVICE box, select the media type (e.g., DAT or OTHER) for the tape. If you select OTHER, you must enter the device name of the tape medium you are using (e.g., / dev/rmt/0mn).

   Note: It is highly recommended that you use a no-rewind tape device when specifying the device name in the OTHER field.

   Proceed to Step 5.

4. If loading from the Installation Server, in the SELECT MEDIA window, click NETWORK in the DEVICE box.

5. Click OK to return to the SEGMENT INSTALLER window.

6. Click Read TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape or Installation Server.

7. From the TABLE OF CONTENTS list, select the segment you wish to load.

8. Click INSTALL. A window appears, displaying an hourglass, indicating that the system is installing the selected segment. The segment requires a few minutes to load and execute.

9. When the segment installation is complete, a warning window appears, stating Selected Segment(s) Installed Successfully. If post install information is required or other special actions need to be taken, a warning window or the specific segment install procedures inform you.

10. Once you have finished a segment install, in the SEGMENT INSTALLER window, click EXIT.

Chapter 3 Application Segment Installation

The GCCS concept is designed to support a wide range of mission applications through a diverse set of application “segments “executed under a Common Operating Environment (COE). All segments that pass Defense Information Systems Agency (DISA) integration testing become part of the GCCS baseline. The following segments are currently approved parts of the GCCS baseline:

- GCCS Upgrade HP-OS 2.3.0.3 (OSUPGR)
- GCCS HP-OS Patch 1 1.0 (HPOSPTC)
- GCCS COE 3.0.1.6.01G
- Exec Mgr 2.1.5.02 (EM)
- EM Printer 2.1.6 (EM_PRINTER)
- EM APPLIX Launch Patch 1.0.0.2 (EM_APPLIX_LAUNCH)
- EM Print Patch 1.0 (EM_PRINT_PATCH)
- EM Process Patch 1.0 (EM_PROC_PATCH)
- Printer 3.0.1.6.02G (PRINTER)
- Joint Mapping Tool Kit 3.0.1.6.01G (JMTK)
- UB Apps 3.0.1.6.01G (UBApps)
- UB Patch P2 3.0.1.6.01GP2 (UBPATCH)
- JMCIS Apps 3.0.1.6.01G (JMCISApps)
- External Transaction Processor 5.6.0.3 (XTP)
- ORACLE Apps Server Tools 7.1.4.02 (ORACLE)
- ORACLE Apps Server Tools P1 1.0.0 (ORAP1)
- Netscape Web Browser 3.0 (WEBBr)
- JOPES Navigation 2.7.0 (JNAV)
- LOGSAFE Client 2.8.0.03 (LSAFE)
- RDA 1.8.1 (RDA)
- Pre-defined Reports 1.6.2 (PDR)
- Ad-Hoc Query 5.6.0.5.01(AHQ)
- PERL 6.0 (PERL)
- Internet Relay Chat Client 1.1.01 (IRCC)
- Internet Relay Chat Client P1 1.0 (IRCCP1)
- Tool Command Language 7.5/1.0.0 (TCL)
- COTS Topic 3.1.5.c (TOPIC)
- AMHS Client 3.1.2 (AMHS_Client)
- Command Center Apps 3.1.2 (CCAPPS)
- Applix 3.2 (APPLIX)
- Run Remote 1.3.03 (RREM)

This chapter covers the installation process for the above listed segments and any additional configuration procedures to successfully install segments in GCCS 2.2. Segments should be loaded in the specific order presented to avoid dependency errors.

3.1 Installing the Web Browser Segment

Install the NetScape Web Browser segment as follows:

1. Login as **sysadmin** (see page 4 for default password).

2. Insert the tape containing the Web Browser segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the Netscape Web Browser segment from the TABLE OF CONTENTS list and click INSTALL.

   A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

6. During the Netscape Web Browser segment installation, a PostInstall window appears, prompting you for site-specific information. Respond to the prompts as follows:

```
Please specify your organization's name (64 chars or less)
:
```

   a. Enter your command name (64 character maximum) (example: AFCOM) and press [Return].

```
Is <your Command name> correct (y/n) [y]:
```

   b. Verify the command name entered is correct and press [Return].

```
Enter local web server machine name (<CR> for none):
```

   c. Enter your web server machine name or the name of the web server which serves the web page you would like to use as your default home page (example: server1.eucom.smil.mil) and press [Return]. If you choose not to enter a web server machine name, just press [Return] to continue.

```
Is <desired web server machine name> correct (y/n) [y]:
```

   d. Verify the machine name and press [Return].

7. The PostInstall window closes and the segment installation continues.

   When the segment has completed installation, the warning Selected segment(s) installed

successfully appears.

8. Click OK to acknowledge the warning and dismiss the window.

9. Exit the SEGMENT INSTALLER by clicking EXIT. Remove the tape containing the Netscape Web Browser segment from the DAT drive and store it in a safe place.

3.2 Installing the Oracle Application Server Tools Patch 1 and the Oracle Application Server Tools Segments

NOTE:
If you are performing an upgrade on your HP workstation and the previously installed version of Oracle Server Application Tools is still installed, you ***must*** install the Oracle Application Server Tools Patch 1 before installing the new version of Oracle Application Server Tools.

If this is a "Clean-Load" build or if the previous version of Oracle Application Server Tools has been removed, there is no need to load the Oracle Application Server Tools Patch 1 before you load the new version of Oracle Application Server Tools.

Install the Oracle Application Server Tools Patch 1 segment and/or the Oracle Application Server Tools segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

Note: If this is a "Clean-Load" build or if the previous version of Oracle Application Server Tools has been removed, skip to Step 9.

2. Insert the tape containing the Oracle Application Server Tools Patch 1 segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the Oracle Application Server Tools Patch 1 segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Remove the tape containing the Oracle Application Server Tools Patch 1 segment from the DAT drive and store it in a safe place.

9. Insert the tape containing the Oracle Application Server Tools segment into the DAT drive and wait until the control panel LEDs stop blinking.

10. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

11. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

12. Highlight the Oracle Application Server Tools segment from the TABLE OF CONTENTS list and click INSTALL.

13. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

14. Click OK to acknowledge the warning and dismiss the warning window.

15. Remove the tape containing the Oracle Application Server Tools segment from the DAT drive and store it, and the tape containing the Oracle Application Server Tools Patch 1, in a safe place.

3.3 Installing the PERL Segment

Install the PERL segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the PERL segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the PERL segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the PERL segment from the DAT drive and store it in a safe place.

3.4 Installing the TCL Segment

Install the TCL segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the TCL segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the TCL segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the TCL segment from the DAT drive and store it in a safe place.

3.5 Installing the JNAV Segment

Install the JOPES NAVIGATION segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the JNAV segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the JOPES NAVIGATION segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the JOPES NAVIGATION segment from the DAT drive and store it in a safe place.

3.6 Installing the XTP Segment

Install the XTP segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the XTP segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the XTP segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the XTP segment from the DAT drive and store it in a safe place.

3.7 Installing the RDA Segment

Install the RDA segment as follows:

1. Login as **sysadmin** (see page 4 for default password).

2. Insert the tape containing the RDA segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the RDA segment from the TABLE OF CONTENTS list and click INSTALL.

   A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

6. During the RDA segment installation, a PostInstall window appears, prompting you for site-specific information. Respond to the prompts as follows:

```
Enter XTP server name [emserver]:
```

   a. Press [Return] to accept the default of the EM Server. The system identifies your EM Server and uses it for the <emserver> entry in the following:

```
Server <emserver> is reachable.

XTP is installed on <emserver>.

Use <emserver> as the XTP server (y/n) [n]:
```

   b. Enter **y** and press [Return].

7. The PostInstall window closes and the segment installation continues.

   When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

8. Click OK to acknowledge the warning and dismiss the window.

9. Remove the tape containing the RDA segment from the DAT drive and store it in a safe place.

3.8 Installing the PDR Segment and Configuring Default PDR Printers

3.8.1 Install the PDR Segment

Install the PDR segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the PDR segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the PDR segment from the TABLE OF CONTENTS list and click INSTALL.

   A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

6. During the PDR segment installation, a PostInstall window appears, prompting you for site-specific information. Respond to the prompts as follows:

```
Does an ORACLE printer definition exist on this system? (y/n) [y]:
```

   a. Enter **`n`** and press [`Return`].

```
You entered n. Is this correct? (y/n) [y]:
```

   b. Press [`Return`] to verify the response.

   c. A notice from PDR appears in a warning window. Click OK in the window to clear the notice.

7. The PostInstall window closes and the segment installation continues.

   When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

8. Click OK to acknowledge the warning and dismiss the window.

9. Remove the tape containing the PDR segment from the DAT drive and store it in a safe place.

3.8.2 Configure the Default Printers for the PDR Segment

If printers have already been configured for the network, proceed with the following steps:

1. If you are not already, login as **sysadmin** (see page 4 for default password).

2. In the LAUNCH window, click on the PRINTER icon.

   A window entitled S_printer_admin_main_menu appears.

3. At the command prompt in the S_printer_admin_main_menu window, enter **I** (update printers on this print client) and press [Return].

   In the S_printer_admin_main_menu window, the system lists the available printers.

4. Press [Return] at the prompt to return to the main menu.

5. At the command prompt in the S_printer_admin_main_menu window, enter **H** (change System Default Printer) and press [Return].

   The system lists available printers and, at the bottom of the list, the following prompt appears on the screen:

```
Enter your selection or 0 to quit and hit <Return>.
```

6. Select the number that corresponds with the printer you want to set as the default and press [Return].

7. At the command prompt in the S_printer_admin_main_menu window, enter **q** to exit the Printer Admin menu.

8. In the LAUNCH window, click the xterm icon to open an xterm.

9. At the command prompt in the xterm, change directories to the admin directory by entering the following:

   cd /h/COTS/ORACLE/guicommon/tk2/admin

10. At the command prompt in the xterm, enter the following command to edit the indicated file:

    vi uiprint.txt

11. Enter [Shift] **G** (to go to the bottom of the file).

12. Enter **o** (to insert a new line).

13. Enter the following on the new line:

    [default printer name]:Post Script:1:[printer description]:default.ppd:

14. Press [ESC] to exit the insert mode.

15. Enter **:wq!** to save the changes to the edited file.

Note: This file should be transferred via FTP to each HP machine with ORACLE Application Server Tools installed.

3.9 Installing the IRC Client (IRCC) Segment

1. Login as **sysadmin** (see page 4 for default password).

2. Insert the tape containing the IRCC segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the IRCC segment from the TABLE OF CONTENTS list and click INSTALL.

   A window appears with an hourglass indicating that the system is busy installing the selected segment(s).

6. During the IRCC segment installation, a PostInstall window appears, prompting you for site-specific information. Respond to the prompts as follows:

```
beginning /h/COTS/IRCC/SegDescrp/PostInstall.TCL...
You are installing on an HP

/h/COTS/IRCC/SegDescrip/PostInstall.TCLcompleted.

hit <CR> to continue...
```

   a. Press [Return]. The xterm closes and is replaced by another. The following message appears:

```
Please enter the name of the domain
for this machine [<your domain name>]:
```

   b. Enter your machine's DNS domain name (example: ims.disa.mil) and press [Return]. The following message appears:

```
Is <your machine's domain name> correct? (y/n) [n]:
```

   c. Verify the entry is correct, enter **y** and press [Return]. The following message appears:

```
Is the name of this machine <your machine's name>? (y/n) [n]:
```

d. Verify the that the name displayed in <your machine's name> is correct (example: lorax), enter **y**, and press [Return]. The following message appears:

```
Is the IP address of this machine <your machine's IP address>? (y/n)
[y]:
```

e. Verify that the IP address displayed in <your machine's IP address> is correct (example: 193.165.17.23), enter **y**, and press [Return]. The following message appears:

```
Adding "I:193.165.17.23::lorax.ims.disa.mil::1" to /h/data/global/IRC/
ircd.conf.
...hit <CR> to continue...
```

f. Press [Return] to continue. The following message appears:

```
 N O T I C E ! ! !
Your server will not recognize this machine as a valid client
until it re-reads its configuration file. On lorax.ims.disa.mil,
execute the following as root:

 kill -HUP `cat /h/COTS/IRCS/lib/ircd/ircd.pid`

You can wait until multiple clients have been installed to execute
that command.

hit <CR> to continue...
```

g. Press [Return] to continue. The following message appears:

```
Did you write that command down? Please do so now, if you
did not. Note that those are single-open-quotes (`), *NOT*
apostrophes ('), in that command.

hit <CR> to continue...
```

h. Press [Return] to continue.

7. The PostInstall window closes and the segment installation continues.

   When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

8. Click OK to acknowledge the warning and dismiss the window.

9. In the LAUNCH window, click the xterm icon to open an xterm.

10. At the command prompt in the xterm, switch users (**su**) to **root** and force the machine to re-read the configuration file by entering the following:

    ```
    kill -HUP `cat /h/COTS/IRCS/lib/ircd/ircd.pid`
    ```

11. Exit the xterm.

12. Insert the IRCC Patch 1 segment tape into the DAT drive and wait until the control panel LEDs stop blinking.

13. Repeat Step 5 through Step 8 to install the IRCC Patch 1 segment.

14. Remove the IRCC Patch 1 segment tape from the DAT drive and store it in a safe place.

3.10 Installing the Run Remote Segment

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the Run Remote segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the Run Remote segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the Run Remote segment from the DAT drive and store it in a safe place.

3.11 Installing the LOGSAFE Segment and Starting LOGSAFE Up

3.11.1 Install the LOGSAFE Segment

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the LOGSAFE segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the LOGSAFE segment from the TABLE OF CONTENTS list and click INSTALL.

6. During the LOGSAFE segment installation, a PostInstall window appears, providing you with the following **important** information:

```
In order to execute LOGSAFE, you must follow these steps:

  1) Verify that both the LOGSAFE DB Server (OLSAFE) and LOGSAFE Client
  (LSAFE) segments have been installed (check the /h directory for
  OLSAFE and LSAFE subdirectories). If the segments are not installed,
  install them.

  2) Login as root or sysadmin on the machine where OLSAFE is installed.

  3) Go to the OLSAFE install directory: cd /h/OLSAFE/install

  4) Enter : add_logsafe_user <UNIX userid of new LOGSAFE user>
      NOTE: Before running this script, verify that the user has both a
     UNIX and an Oracle account.

  5) Login as the user from step 4 on the machine where LSAFE is
  installed.

  6) Execute LOGSAFE by clicking the LOGSAFE icon in the Launch Window.

To revoke a user's LOGSAFE privileges and access, follow these steps:

  1) Login as root or sysadmin on the machine where OLSAFE is installed.

  2) Go to the OLSAFE install directory: cd /h/OLSAFE/install

  3) Enter: drop_logsafe_user <UNIX userid of new LOGSAFE user>

Press <ENTER> to continue...
```

When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the LOGSAFE segment from the DAT drive and store it in a safe place.

3.11.2 LOGSAFE Segment Start-up

1. Verify that both the LOGSAFE DB Server (OLSAFE) and LOGSAFE Client (LSAFE) segments have been installed by checking the /h directory for OLSAFE and LSAFE subdirectories on the LOSAFE DB Server and LOGSAFE Client machines, respectively.

2. Login as **sysadmin** (see page 4 for default password) on the LOGSAFE DB Server.

3. In the LAUNCH window, click the xterm icon to open an xterm.

4. At the command prompt, enter the following to change directories to the OLSAFE install directory:

   cd /h/OLSAFE/install

5. At the command prompt, enter the following:

   add_logsafe_user <UNIX userid of new LOGSAFE user>

Note: Before running this script, verify that the user has both a UNIX and an Oracle account.

6. Login as the LOGSAFE user from Step 4 on the LOGSAFE Client machine (machine where LSAFE is installed).

7. Execute LOGSAFE by clicking the LOGSAFE icon in the LAUNCH window.

3.12 Installing and Licensing the APPLIX Segment

3.12.1 Install the APPLIX Segment

1. Login as **sysadmin** (see page 4 for default password).

2. Insert the tape containing the APPLIX segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the APPLIX segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the APPLIX segment from the DAT drive and store it in a safe place.

3.12.2 Licensing the APPLIX Segment

1. If you already have a valid APPLIX license file, you may `ftp` it from your EM Server to your HP machine, where APPLIX is to be operational. Transfer the file as follows:

   a. On your HP machine, login as **sysadmin** (see page 4 for default password).

   b. Change directories to the APPLIX license directory as follows:

      cd /h/COTS/APPLIX/axdata

   c. At the prompt, enter **ftp <EM Server machine name>** to ftp to the EM server where the APPLIX license resides.

   d. At the ftp prompt, enter the following to change directories on the EM Server machine:

      cd /h/COTS/APPLIX/axdata

   e. At the ftp prompt, enter **bin** to change to binary mode.

f. At the ftp prompt, enter the following to get the APPLIX license from the EM Server:

`get axlicensedat`

g. At the ftp prompt, enter **`quit`** to exit ftp.

2. If you do not already have a valid APPLIX license file on your EM Server, you must configure APPLIX on your EM Server as follows:

a. Login as **`root`** (see page 4 for default password) on the EM Server.

b. Launch and xterm window.

c. In the xterm, enter the following to change directories to the APPLIX directory:

`cd /h/COTS/APPLIX`

d. Execute the APPLIX program (**`./applix`**).

e. Clear all of the OK messages telling you the licenses have expired.

f. On the main window tool bar, click on the `UTILITIES` menu.

g. Select the `License Generator`.

h. Fill in the blanks from the information provided on the license. Case is not significant as the entries are evaluated as hex data. If a feature is not covered by the license, blank out the entire row. Clearing the word `DEMO` is significant.

i. Click on `OK` to apply the license.

j. In the xterm, change directories to the rc3.d directory by entering cd /etc/rc3.d.

k. Create the boot process to launch the License Manager for APPLIX as follows:

i. Enter **`vi S45applix`**.

ii. Enter **`i`** to move into insert mode.

iii. Enter the following lines:

```
/h/COTS/APPLIX/axdata/axnlmgrd -c
/h/COTS/APPLIX/axdata/licensedat > /tmp/axnlmlog &
```

iv. Enter [`ESC`] to exit insertion mode.

v. Enter **`:wq!`** to save your changes in a file called `S45applix`.

vi. Make the `S45applix` file an executable with the following command:

```
chmod 744 S45applix
```

l. Check to see if the Applix License Manager Daemon (`axnlmgrd`) is running with **`ps -ef | grep ax`**. If it is not, start it with the command **`./S45applix`**.

m. Change directory to the license file as follows:

```
cd /h/COTS/APPLIX/axdata
```

n. FTP from the EM server to each machine that will be allowed to use APPLIX. Once on the client machine, change the directory to where the license should reside (`cd /h/COTS/APPLIX/axdata`). Change the transfer mode to binary (`bin`). Put the license file on the machine with the **`put axlicensedat`** command.

3.13 Installing and Configuring the AMHS and CCAPPS Segments

3.13.1 Install the AMHS Segment

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the AMHS segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the AMHS segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the AMHS segment from the DAT drive and store it in a safe place.

3.13.2 Install the CCAPPS Segment

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the CCAPPS segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the CCAPPS segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the CCAPPS segment from the DAT drive and store it in a safe place.

3.13.3 Configure the AMHS and CCAPPS Segments

1. Login as **`sysadmin`** (see page 4 for default password).

2. In the LAUNCH window, click the xterm icon to launch an xterm window.

3. At the command prompt, change directories as follows:

   `cd /h/CCAPPS/data/sybase_interface`

4. Edit the `interfaces` file as follows:

   a. Enter **`vi interfaces`** and press [`Return`].

   b. Enter **`/`** (slash).

   c. Enter **`emserver`** to move to the instance of emserver and press [`Return`].

   d. Change `emserver` to `<your EM Server hostname>`.

   e. Enter **`:wq!`** to save you changes and exit the editor.

5. At the command prompt, change directories as follows:

   `cd /h/EM/data/workstation`

6. Edit the **`edss_server`** file as follows:

   a. Enter **`vi edss_server`** and press [`Return`].

   b. Enter **`/`** (slash).

   c. Enter **`emserver`** to move to the instance of emserver and press [`Return`].

   d. Change `emserver` to `<your EM Server hostname>`.

   e. Enter **`:wq!`** to save you changes and exit the editor.

7. Under `/usr/lib`, create the link between the `X11R5` directory and `X11R4` directory as follows:

   `ln -s X11R5 X11R4`

8. Change directories to the `/h/EM/admin/security-scripts` directory and edit the `Security_Servers` file as follows to modify the line that refers to the emserver in order to support Sybase:

   `<your EM Server hostname>:gccs:TRUE:/usr/bin/remsh:/h/EM/nis_files`

9. Add an alias entry to the `/var/nameserver/<your hostfile>` on the DNS server for `'emhost'` which points to `'localhost'`.

10. Add an alias entry to the `/var/nameserver/<your hostfile>` on the DNS server for `'amhserver'` which points to `'amhservername'`.

    Note: It is not clear, procedurally, how adding this alias would be accomplished at a site which uses a backup or secondary amhs. Do not add an alias for the backup amhs server.

11. Add an entry to the `/var/nameserver/<your hostfile>` on the DNS server for the SAT.

12. The force the system to recognize the updated DNS files, enter the following:

    `kill -HUP 'cat /etc/named.pid'`

13. Modify the `/etc/services` file on the HP so that all of the `u6` services have the same socket numbers as they do on the EM Server.

14. Add all of the `amh_` groups to the `/etc/group` file on the HP so that the users of those functions can release message, etc.

15. If you are configuring the HP NIS Server, as `root`, enter the following command to update the `/etc/services` file:

    `/usr/etc/yp/ypmake DIR=/etc services`

16. Ensure that both the SAT and AMHS are in the HP's `/etc/hosts` file. Edit the `hosts` file to add them, if necessary.

17. If you are configuring the HP NIS Server, as `root`, enter the following command to update the `/etc/hosts` file:

    `/usr/etc/yp/ypmake DIR=/etc hosts`

18. Ensure that the HP is mounting `/h/data/global` from the emserver by executing the mount command. If `/h/data/global/` is not being mounted from the emserver, edit the `/etc/checklist` file to do this.

19. Ensure that `/h/EM/pla_tables` is linked to `/h/data/global/EMDATA/pla_tables.hp`.

20. Ensure that `usr/edss` is linked to `/h/EM`.

21. Ensure that the HP has been added to the `etc/hosts` file on the amhserver

22. Ensure that the HP can `ping` the amhserver, emserver and SAT by name and alias.

Note: Adding the entry **`stty intr ^C`** to the user's `.cshrc` file, and then executing a **`source .cshrc`** command will allow the user to execute a **`^C break`** during the execution of the `ping` command.

23. If a user with permission to use the SA Tool is going to be using the HP, ensure that the user and the HP workstation name are added to the `.rhosts` file located at:

`/h/AMHS/Server/topic/amhs_db/hom/.rhosts`

24. Update the site pla in the `/h/CCAPPS/data/config/Mv.CCA` file.

25. To support HP workstations, a new character set must be loaded on the Sybase server workstation. Execute the following commands to install the HP character set on the Sybase server.

Note: This step is only performed once for all HP workstations.

26. Locate the Sybase server. This is your EM Server.

27. Login on the EM Server as `root`. After login, switch users to the sybase account as follows:

    `su - sybase`

28. Change directories to the Sybase install directories as follows:

    `cd /h/COTS/SYBASE/install`

29. Execute the Sybase installation program by entering the following:

    `./sybinit`

30. Respond to the prompts and select the appropriate options to reconfigure the server as follows:

    a. Select 3, **`Configure a Server Product`**.

    b. Select 1, **`SQL Server`**.

    c. Select 2, **`Configure an Existing SQL Server`**.

    d. Select **`The GCCS Server`**.

e. Select 2, and enter the **sysadmin** password.

f. Press **[Ctrl]-a** to continue.

g. Select 7, **Configure Character Sets**.

h. Select 6, **Hewlett-Packard proprietary**.

i. Answer **y** to confirm the selection.

j. Answer **n** to make this set the default.

k. Press **[Ctrl]-a** to continue.

l. Press **[Ctrl]-a** to continue.

m. Press **y** to execute a new server configuration. This procedure takes about 5 seconds and the following message should appear:

```
Command completed successfully
Press <return> to continue
```

n. Continue through the menus to get back to the command prompt. The HP character set is now installed on the Sybase server.

31. On the HP workstation, login as either `amhs_dba` or `root` and copy the `MAST_PLA.CCS` file to the proper location for HP's. Failure to do so will result in an error message that occurs when entering the `TO:` pla and clicking on `OK` while creating a message in MTF. Execute this copy as follows:

```
cd /h/data/global/EMDATA/pla_tables
cp MAST_PLA.CCA ../pla_tables.hp
```

Note: The owner and group of the new `pla_tables.hp` file must be `amhs_dba` and `gccs`, respectively.

32. On the HP workstation, under `/usr/lib`, create a link between the `/usr/lib/Motif1.2/libXm.sl` directory and the `/usr/lib/libXm.sl` directory as follows:

```
cd /usr/lib
ln -s /usr/lib/Motif1.2/libXm.sl libXm.sl
```

3.14 Installing the Ad-Hoc Query Segment

Install the AHQ segment as follows:

1. Login as **`sysadmin`** (see page 4 for default password).

2. Insert the tape containing the AHQ segment into the DAT drive and wait until the control panel LEDs stop blinking.

3. Select Segment Installer from the Software pull-down menu. The SEGMENT INSTALLER window appears.

4. In the SEGMENT INSTALLER window, click READ TOC. The items that appear in the TABLE OF CONTENTS portion of the SEGMENT INSTALLER window are the names of software segments contained on the tape.

5. Highlight the AHQ segment from the TABLE OF CONTENTS list and click INSTALL.

6. A window appears with an hourglass indicating that the system is busy installing the selected segment(s). When the segment has completed installation, the warning Selected segment(s) installed successfully appears.

7. Click OK to acknowledge the warning and dismiss the warning window.

8. Exit the SEGMENT INSTALLER window by clicking EXIT.

9. Remove the tape containing the AHQ segment from the DAT drive and store it in a safe place.

3.15 Populating the NIS Database from the NIS+ Database

1. Login as **sysadmin** (see page 4 for default password) on the NIS+ server.
2. Launch an xterm window.
3. Enter the following command to create a file called `passwd`:

   `niscat passwd.org_dir >/tmp/passwd`

4. Edit the newly created **passwd** file as follows:
   a. Enter **`vi /tmp/passwd`** and press [Return].
   b. Enter **/** (slash).
   c. Enter **csh** to move to the first instance of csh.
   d. Enter **c$** to edit the remainder of the line.
   e. Enter **csh** and press [ESC] to change the rest of the line to csh.
   f. Enter **n** to move to the next instance of csh.
   g. Enter **.** (period) to repeat the last command.
   h. Repeat Step f and Step g until all of the extra text after `/bin/csh` for each user is deleted.
   i. Enter **:wq!** when the end of the file is reached.
5. Enter the following command to create a file called `group`:

   `niscat group.org_dir >/tmp/group`

6. Transfer the files via FTP from the EM Server to the NIS Sever as follows:
   a. Enter **ftp <HP_NIS_Server_Name>** where **<HP_NIS_Server_Name>** is the name of the HP NIS Server.
   b. Enter **bin**.
   c. Enter **put /tmp/passwd /h/EM/nis_files/passwd**.
   d. Enter **put /tmp/group /h/EM/nis_files/group**.
   e. Enter **quit**.
7. Log out of the EM Server.

8. Log into the HP NIS Server as **sysadmin**.
9. Launch an xterm window.
10. Enter the following command:

    /usr/etc/yp/ypmake DIR=/h/EM/nis_files passwd

11. Enter the following command:

    /usr/etc/yp/ypmake DIR=/h/EM/nis_files group

12. Log out of the HP NIS Server.

Appendix GCCS HP Software Installation Checklist

	Segment Name	Version Number	Segment Abbreviation	Checklist
1	GCCS Upgrade HP-OS	2.3.0.3	OSUPGR	____
2	GCCS HP-OS Patch 1	1.0	HPOSPTC	____
3	GCCS COE	3.0.1.6.01G		____
4	Exec Mgr	2.1.5.02	EM	____
5	EM Printer	2.1.6	EM_PRINTER	____
6	EM APPLIX Launch Patch	1.0.0.2	EM_APPLIX_LAUNCH	____
7	EM Print Patch	1.0	EM_PRINT_PATCH	____
8	EM Process Patch	1.0	EM_PROC_PATCH	____
9	Printer	3.0.1.6.02G	PRINTER	____
10	Joint Mapping Tool Kit	3.0.1.6.01G	JMTK	____
11	UB Apps	3.0.1.6.01G	UBApps	____
12	UB Patch P2	3.0.1.6.01GP2	UBPATCH	____
13	JMCIS Apps	3.0.1.6.01G	JMCISApps	____
14	External Transaction Processor	5.6.0.3	XTP	____
15	ORACLE Apps Server Tools	7.1.4.02	ORACLE	____
16	ORACLE Apps Server Tools P1	1.0.0	ORAP1	____
17	Netscape Web Browser	3.0	WEBBr	____
18	JOPES Navigation	2.7.0	JNAV	____
19	LOGSAFE Client	2.8.0.03	LSAFE	____
20	RDA	1.8.1	RDA	____
21	Pre-defined Reports	1.6.2	PDR	____
22	Ad-Hoc Query	5.6.0.5.01	AHQ	____
24	PERL	6.0	PERL	____
25	Internet Relay Chat Client	1.1.01	IRCC	____
26	Internet Relay Chat Client P1	1.0	IRCCP1	____
27	Tool Command Language	7.5/1.0.0	TCL	____
28	COTS Topic	3.1.5.c	TOPIC	____
29	AMHS Client	3.1.2	AMHS_Client	____
30	Command Center Apps	3.1.2	CCAPPS	____

	Segment Name	Version Number	Segment Abbreviation	Checklist
31	Applix	3.2	APPLIX	____
32	Run Remote	1.3.03	RREM	____

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